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The United States of America



The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

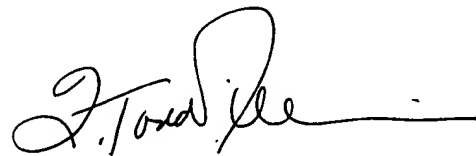
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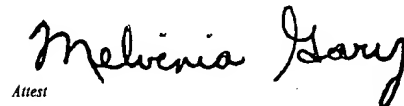
Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

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United States Patent [19]

Suzuki et al.

[11] Patent Number: **6,049,875**[45] Date of Patent: **Apr. 11, 2000**[54] **SECURITY APPARATUS AND METHOD**

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[73] Assignee: **Kabushiki Kaisha Toshiba, Japan**[21] Appl. No.: **08/810,623**[22] Filed: **Feb. 28, 1997**[30] **Foreign Application Priority Data**

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 Sep. 13, 1996 [JP] Japan P08-243879

[51] Int. Cl.⁷ **G06F 12/14**[52] U.S. Cl. **713/200; 713/201; 380/5**

[58] Field of Search 395/186, 187.01,
 395/188.01, 200.46, 200.47; 380/4, 23,
 25; 364/222.5, 286.4, 286.5, 260.81

[56] **References Cited****U.S. PATENT DOCUMENTS**

5,182,770 1/1993 Medveczky et al. 380/4

Primary Examiner—Dieu-Minh T. Le*Attorney, Agent, or Firm*—Graham & James LLP[57] **ABSTRACT**

A security apparatus. A service is supplied to a user while maintaining the security of the service. A person discrimination section discriminates the user to be supplied the service. A user situation decision section decides whether the user is under a situation to use the service. An infringement situation decision section detects whether a non-user intrudes into a use area of the service in order to decide whether the security of the service is infringed. A service control section supplies the service to the user in case the person discrimination section discriminates the user, and controls a supply of the service if the use situation decision section decides the user is not under the situation to use the service or the infringement situation decision section decides that the security of the service is infringed.

16 Claims, 17 Drawing Sheets